## Subpart B—Oral Dosage Forms

## §455.110 Chloramphenicol capsules.

- (a) Requirements for certification—(1) Standards of identity, strength, quality, and purity. Chloramphenicol capsules are composed of chloramphenicol with or without one or more suitable and harmless diluents and lubricants. Each capsule contains 50, 100, or 250 milligrams of chloramphenicol. Its potency is satisfactory if it is not less than 90 percent and not more than 120 percent of the number of milligrams of chloramphenicol that it is represented to contain. The chloramphenicol used conforms to the standards prescribed by § 455.10(a) (1).
- (2) Labeling. It shall be labeled in accordance with the requirements of § 432.5 of this chapter.
- (3) Requests for certification; samples. In addition to complying with the requirements of §431.1 of this chapter, each such request shall contain:
  - (i) Results of tests and assays on:
- (a) The chloramphenicol used in making the batch for potency, pH, specific rotation, melting range, absorptivity, and crystallinity.
  - (b) The batch for potency.
  - (ii) Samples required:
- (a) The chloramphenicol used in making the batch: 10 packages, each containing approximately 300 milligrams.
- (b) The batch: A minimum of 30 capsules.
- (b) Tests and methods of assay; potency. Use either of the following methods; however, the results obtained from the microbiological turbidimetric assay shall be conclusive.
- (1) Microbiological turbidimetric assay. Proceed as directed in §436.106 of this chapter, preparing the sample for assay as follows: Place a representative number of capsules into a high-speed glass blender jar containing 100 milliliters of 95 percent ethyl alcohol. Blend for 2 minutes. Then add 400 milliliters of distilled water and blend again for 2 minutes. Remove an aliquot and further dilute with distilled water to the reference concentration of 2.5 micrograms of chloramphenicol per milliliter (estimated).
- (2) Spectrophotometric assay—(i) Preparation of working standard solution. Dis-

solve approximately 50 milligrams of the working standard in 100 milliliters of distilled water. Warm if necessary to hasten dissolution. Transfer 10 milliliters into a 250-milliliter volumetric flask and fill to volume with distilled water.

(ii) Procedure. Place the contents of 10 capsules into a 250-milliliter volumetric flask. Add 50 milliliters of pure methyl alcohol to the flask and shake for at least 1 minute. Fill to volume with distilled water and mix thoroughly. Withdraw an aliquot and dilute with sufficient distilled water to give a concentration of 20 micrograms per milliliter. Using a suitable spectrophotometer equipped with a 1.0-centimeter cell and distilled water as the blank, determine the absorbance of the working standard and sample solutions at 278 nanometers. Calculate the potency as follows:

Absorbance of sample ×labeled potency per capsule in milligrams

Milligrams per = -

Absorbance of standard

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## § 455.111 Chloramphenicol palmitate oral suspension.

(a) Requirements for certification—(1) Standards of identity, strength, quality, and purity. Chloramphenicol palmitate oral suspension is chloramphenicol palmitate and one or more suitable and harmless buffer substances, suspending agents, preservatives, colorings, and flavorings suspended in a suitable and harmless vehicle. Each milliliter contains chloramphenicol palmitate equivalent to 30.0 milligrams of chloramphenicol. Its potency is satisfactory if it is not less than 90 percent and not more than 120 percent of the number of milligrams of chloramphenicol that it is represented to contain. Its pH is not less than 4.5 nor more than 7.0. Its content of polymorph A crystals does not exceed 10 percent. The chloramphenicol palmitate used conforms to the standards prescribed by \$455.11(a)(1).

(2) Labeling. It shall be labeled in accordance with the requirements of §432.5 of this chapter.